



(10) **Patent No.:** US 9,636,136 B2  
(45) **Date of Patent:** May 2, 2017

(56) **References Cited**

U.S. PATENT DOCUMENTS

(Continued)

FOREIGN PATENT DOCUMENTS

(Continued)

Mar. 13, 2015 Office Action issued in European Patent Application No. 12844337.1.

(Continued)

Primary Examiner — Long V Le

Assistant Examiner — Colin T Sakamoto

(74) *Attorney, Agent, or Firm* — Oliff PLC

(57) **ABSTRACT**

With respect to a forceps type treatment instrument including an ultrasound probe that protrudes from a treatment instrument main body at a position separated to a distal end side from a shaft portion, and a jaw that is displaceable between a closed state and an opened state by being linked with swing action of a clamp arm in a position separated to a distal end side from the shaft portion, stoppers are extendedly provided toward a clamp arm side from a treatment instrument main body side in a state in which edge portions at a distal end side are set to located at a distal end side from a locus of a proximal end of the jaw, and entry of a living body into a gap of the treatment instrument main body and the clamp arm is restricted.

**5 Claims, 15 Drawing Sheets**

(58) **Field of Classification Search**  
CPC ..... A61B 17/282; A61B 17/320092; A61B  
90/03; A61B 2017/2825; A61B 18/1442;  
(Continued)

